

AMENDMENTS TO THE CLAIMS:

Please cancel Claims 3, 5, 6, 10, 12, 13, and 16 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 1, 2, 4, 7, 8, 9, 11, 15, and 17 as follows:

1. (Currently Amended) An optical device comprising:

~~an optical member~~ a variator lens;

~~a memory means for storing preset velocity speed information about driving of said optical member to drive the variator lens;~~

~~storage designation operation means operated to store the preset velocity information in the memory means;~~

~~driving means for driving said optical member~~ the variator lens;

~~operation means having an operation member; and~~

~~control means for performing drive control of said driving means;~~

~~wherein the preset velocity information stored in said memory means corresponds to the driving velocity of said optical member when said storage designation operation means is operated;~~

~~wherein said control means performs preset drive control of said driving means on the basis of the preset velocity information stored in said memory means; and~~

~~a zoom switch configured to be operated to determine a driving direction and driving speed and to instruct driving of the variator lens;~~

a storage switch configured to be operated to store a driving speed of the variator lens as preset speed information;

a preset switch; and

a controller for controlling the driving means to drive the variator lens at a speed related to the preset speed information stored in the memory, in response to the operation of the preset switch,

wherein ~~said control means~~ the controller changes the preset ~~velocity speed~~ information on the basis of the stored preset speed information, in accordance with an operation of ~~said operation member~~ of the zoom switch while the variator lens is being driven at the preset speed.

2. (Currently Amended) A device according to claim 1, wherein ~~said control means~~ the controller sets a change amount of the preset ~~velocity speed~~ information in accordance with an operation amount of ~~said operation member of said operation means~~ the zoom switch.

3. (Cancelled)

4. (Currently Amended) A device according to claim 1, wherein every time ~~said operation member of said operation means~~ the zoom switch is operated, ~~said control means~~ the controller sets a change amount of the preset ~~velocity speed~~ information in

~~accordance with a driving velocity of optical adjustment means in the operation~~ regardless of an operation amount.

5 - 6. (Cancelled)

7. (Withdrawn) A device according to claim 1, wherein

~~said the~~ memory ~~means~~ stores preset position information,

~~said the~~ driving means drives ~~said-optical member~~ the variator lens in two directions (backward and forward directions, right and left directions, or up and down directions),

~~said operation member of said operation means~~ the zoom switch has two operation directions corresponding to the two driving directions of ~~said-optical member~~ the variator lens,

~~said control means~~ the controller performs the preset drive control of ~~said the~~ driving means to drive ~~said-optical member~~ the variator lens on the basis of the preset ~~velocity~~ speed information and the preset position information, and

~~said control means~~ the controller changes the preset ~~velocity~~ speed information to a high-velocity side when ~~said operation member~~ the zoom switch is operated in one of the two operation directions, and to a low-velocity side when ~~said operation member~~ the zoom switch is operated in the other one of the two operation directions.

8. (Withdrawn) A device according to claim 1, wherein

~~said memory means~~ the memory stores preset position information,

~~said the driving means drives said optical member~~ the variator lens in two directions (backward and forward directions, right and left directions, or up and down directions),

~~said operation member of said operation means~~ the zoom switch has two operation directions corresponding to the two driving directions of ~~said optical member~~ the variator lens,

~~said control means~~ the controller performs the preset drive control of ~~said the driving means to drive said optical member~~ the variator lens on the basis of the preset ~~velocity~~ speed information and the preset position information, and

~~said control means~~ the controller changes the preset ~~velocity~~ speed information to a high-velocity side when ~~said operation member~~ the zoom switch is operated in a direction of the two operation directions that corresponds to a current driving direction of ~~said optical member~~ the variator lens, and to a low-velocity side when ~~said operation member~~ the zoom switch is operated in a direction of the two operation directions that corresponds to a direction opposite to the current driving direction of ~~said optical member~~ the variator lens.

9. (Currently Amended) A device according to claim 1, wherein ~~said control~~  
~~means~~ the controller stores and holds, in ~~said~~ the memory, ~~means,~~ preset velocity  
~~information~~ the information of the speed of the variator lens at an end of the preset drive  
control, and sets the preset ~~velocity~~ speed information as preset ~~velocity~~ speed information  
at a start of a next preset drive control.

10. (Cancelled)

11. (Withdrawn) A device according to claim 1, wherein  
~~said memory means~~ the memory stores preset position information,  
~~said control means~~ the controller performs the preset drive control of ~~said~~ the  
driving means to drive ~~said optical member~~ the variator lens on the basis of the preset  
~~velocity~~ speed information and the preset position information, and  
~~said control means~~ the controller stores and holds, in ~~said memory means~~ the  
memory, preset ~~velocity~~ speed information and preset position information at an end of the  
preset drive control, and sets the preset ~~velocity~~ speed information and the preset position  
information as preset ~~velocity~~ speed information and preset position information at a start  
of a next preset drive control.

12 - 14. (Cancelled)

15. (Currently Amended) A device according to claim 1, wherein ~~said device~~ further comprises preset driving start operation means operated to generate preset drive control start command information, and said control means starts the preset drive control of said driving means on the basis of the preset velocity information stored in said memory means in accordance with an operation of said preset driving start operation means the device further comprises preset driving start operation means configured to be operated to start the preset driving.

16. (Cancelled)

17. (Currently Amended) A camera system comprising the optical device of claim 1. having a camera on which an optical device is mounted, comprising:

an optical member;

~~memory means for storing preset velocity information about driving of said optical member;~~

~~driving means for driving said optical member;~~

~~storage designation operation means operated to store the preset velocity information in said memory means;~~

~~operation means having an operation member; and~~

~~control means for performing drive control of said driving means;~~

~~wherein the preset velocity information stored in said memory means corresponds to the driving velocity of said optical member when said storage designation operation means is operated;~~

~~wherein said control means performs preset drive control of said driving means on the basis of the preset velocity information stored in said memory means, and~~

~~wherein said control means changes the preset velocity information in accordance with an operation of said operation member.~~

18. (Withdrawn) An optical device comprising:

an optical member;

memory means for storing preset direction designation information representing a target driving direction or target driving position of said optical member;

driving means for driving said optical member;

operation means having an operation member; and

control means for performing drive control of said driving means, wherein said control means performs preset drive control of said driving means on the basis of the preset direction designation information stored in said memory means, and said control means changes the preset direction designation information and a driving direction of said optical member in accordance with an operation of said operation member.

19. (Withdrawn) A device according to claim 18, wherein  
said memory means further stores preset driving velocity information, and  
said control means performs the preset drive control of said driving means on  
the basis of the preset direction designation information and the preset driving velocity  
information that are stored in said memory means.

20. (Withdrawn) A device according to claim 18, wherein  
said driving means drives said optical member in two directions,  
said operation member of said operation means has two operation directions  
corresponding to the two driving directions of said optical member, and  
said control means changes the preset direction designation information when  
said operation member is operated in a direction of the two operation directions that  
corresponds to a current driving direction of said optical member.

21. (Withdrawn) A device according to claim 18, wherein  
said operation means generates command information for driving said optical  
member in accordance with the operation of said operation member, and  
when said control means does not perform the preset drive control, said control  
means performs drive control of said driving means to drive said optical member on the  
basis of the command information from said operation means.



22. (Withdrawn) A device according to claim 18, wherein  
said operation means generates command information including at least driving  
direction information of said optical member in accordance with the operation of said  
operation member, and  
when said control means performs the preset drive control, said control means  
changes the preset direction designation information on the basis of the driving direction  
information of the command information from said operation means.

23. (Withdrawn) An optical device comprising:  
an optical member;  
memory means for storing preset direction designation information  
representing a target driving direction or target driving position of said optical member;  
driving means for driving said optical member;  
control means for performing drive control of said driving means; and  
preset driving start operation means operated to start preset drive control,  
wherein said control means performs (starts) preset drive control of said  
driving means on the basis of the preset direction designation information stored in said  
memory means in accordance with an operation of said preset driving start operation  
means, and said control means changes the preset direction designation information and a  
driving direction of said optical member in accordance with the operation of said preset  
driving start operation means during the preset drive control.

24. (Withdrawn) A device according to claim 23, wherein  
said optical device further comprises driving command operation means for  
generating command information for driving said optical member in accordance with an  
operation of an operation member, and  
said control means starts the preset drive control in accordance with the  
operation of said preset driving start operation means, changes and sets the preset direction  
designation information in accordance with the operation of said preset driving start  
operation means during the preset drive control, and ends the preset drive control in  
accordance with an operation of said driving command operation means during the preset  
drive control.

25. (Withdrawn) A device according to claim 18, wherein said control means  
stores and holds preset direction designation information at an end of the preset drive  
control, and sets the preset direction designation information as preset direction designation  
information at a start of next preset drive control.

26. (Withdrawn) A device according to claim 23, wherein said control means  
stores and holds preset direction designation information at an end of the preset drive  
control, and sets the preset direction designation information as preset direction designation  
information at a start of next preset drive control.

27. (Withdrawn) A device according to claim 19, wherein said control means stores and holds preset direction designation information and preset velocity information at an end of the preset drive control, and sets the preset direction designation information and the preset velocity information as preset direction designation information and preset velocity information at a start of next preset drive control.

28. (Withdrawn) A device according to claim 21, wherein  
said optical device further comprises storage command operation means  
operated to store the preset direction designation information in said memory means, and  
in accordance with an operation of said storage command operation means  
when drive control of said driving means for driving said optical member is performed on  
the basis of the command information from said operation means, said control means  
stores preset direction designation information corresponding to a driving direction or  
driving position in the operation.

29. (Withdrawn) A device according to claim 28, wherein  
said memory means further stores preset driving velocity information, and  
in accordance with the operation of said storage command operation means  
when drive control of said driving means for driving said optical member is performed on  
the basis of the command information from said operation means, said control means  
stores preset direction designation information corresponding to a driving direction or

driving position and preset velocity information corresponding to a driving velocity in the operation.

30. (Withdrawn) A device according to claim 18, further comprising indication means for indicating a driving direction of optical adjustment means that corresponds to the preset direction designation information.

31. (Withdrawn) A device according to claim 23, further comprising indication means for indicating a driving direction of optical adjustment means that corresponds to the preset direction designation information.

32. (Withdrawn) A device according to claim 19, further comprising indication means for indicating a driving velocity of optical adjustment means that corresponds to the preset velocity information.

33. (Withdrawn) A device according to claim 18, wherein said optical member includes a zoom lens optical system for adjusting a magnification.

34. (Withdrawn) A camera system having a camera on which an optical device is mounted, comprising:

an optical member;

memory means for storing preset direction designation information representing a target driving direction or target driving position of said optical member;

driving means for driving said optical member;

operation means having an operation member; and

control means for performing drive control of said driving means, wherein said control means performs preset drive control of said driving means on the basis of the preset direction designation information stored in said memory means, and said control means changes the preset direction designation information and a driving direction of said optical member in accordance with an operation of said operation member.

35. (Withdrawn) A camera system having a camera on which an optical device is mounted, comprising:

an optical member;

memory means for storing preset direction designation information representing a target driving direction or target driving position of said optical member;

driving means for driving said optical member;

control means for performing drive control of said driving means; and

preset driving start operation means operated to start preset drive control, wherein said control means performs (starts) preset drive control of said driving means on the basis of the preset direction designation information stored in said memory means in accordance with an operation of said preset driving start operation means, and

said control means changes the preset direction designation information and a driving direction of said optical member in accordance with the operation of said preset driving start operation means during the preset drive control.

36. (Withdrawn) An optical device comprising:

an optical member;

memory means for storing preset driving information about driving of said optical member;

driving means for driving said optical member;

operation means having an operation member; and

control means for performing drive control of said driving means, wherein said control means changes the preset driving information in accordance with an operation of said operation means.

37. (Withdrawn) A device according to claim 36, wherein the preset driving information stored in said memory means includes information representing any one of a driving direction, driving velocity, and driving position of said optical member.